

The APEC Workshop on “Advancing Occupational Safety and Health (OSH) through Artificial Intelligence (AI) Solutions: Preventing and Reducing Workplace Hazards and Accidents”

「運用 AI 解方促進職業安全衛生：預防及降低職場風險與意外」

APEC 工作坊

Tentative Agenda/議程草案

Date: November 4, 2026

日期：2026 年 11 月 4 日

Time 時間	Agenda Item 議程項目
09:30-10:00 (30 mins)	Registration/ Online-testing 報到/連線測試
10:00-10:15 (15 mins)	Opening Remarks 開幕致詞 ● H.E. Sun-Han Hung, Minister of Labor 勞動部洪申翰部長 (待定) ● Mr. Jonathan C.Y. Sun, Director-General, Ministry of Foreign Affairs 外交部孫儉元司長(待定) ● 衛生工作小組(HWG)預錄影片(待定)
10:15-10:25 (10 mins)	Group Photo 大合照
10:30-12:00 (90 mins)	Session I: Opportunities and Issues for Advancing OSH in the AI Era 場次一：AI 時代促進職業安全衛生之契機與課題 This session aims to provide participants with a broad understanding of the use of AI in the OSH field. Specifically, the widespread adoption of AI at work has offered new opportunities to advance workplace safety and health. For example, digital tools and wearable devices can enable real-time hazard identification and support timely responses through AI-enabled monitoring and automated decision-making. AI can also help analyze the causes and trends of occupational accidents and diseases. At the same time, the increasing integration of AI into the workplace may raise issues that need to be carefully addressed, such as AI-enabled worker

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	monitoring. Therefore, this session will discuss topics including, but not limited to: (1) Opportunities for improving OSH in the AI era (2) Issues that need to be carefully addressed while utilizing AI for advancing OSH (3) Strategies for managing and utilizing AI to improve workplace safety and health 本場次旨在使與會者廣泛瞭解 AI 於職業安全衛生領域之應用。當前 AI 的創新應用已為提升工作場所安全與衛生帶來新的契機。例如，數位工具與穿戴式裝置的應用，可即時辨識工作場所危害，並透過 AI 監測及自動化決策，協助及時採取因應措施。此外，AI 亦可協助分析職業災害與職業病的成因及發展趨勢。但與此同時，隨著 AI 日益融入工作場所，也可能衍生需要審慎因應的議題，例如自動化工作分派及 AI 勞工監測等。基於此背景，本場次將討論（但不限於）以下議題： (1) AI 時代提升職業安全衛生的機會 (2) 運用 AI 促進職業安全衛生需要審慎因應的相關議題 (3) 運用及管理 AI 提升工作場所安全衛生之策略 Moderator: 主持人： Dr. Shih-Hao Liu, Chair Professor and Dean, School of Law, Ming Chuan University 銘傳大學法律學院院長劉士豪講座教授 Speakers: 擬邀講者： ● National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, US Department of Health and Human Services 美國衛生及公共服務部疾病管制與預防中心國家職業安全衛生研究所(待定) ● Public Services International (PSI) 國際公共服務協會(待定)

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	● Ms. Fumiko Kimura, Director of UNI Apro ICTs, UNI Global Union 網際網路工會全球聯盟亞太區域資通訊產業服務部 Fumiko Kimura 主任 ● IndustriALL Global Union 全球產業總工會(待定) ● Dr. Hsin-I Ting, Chief Sustainability Officer, Radium Life Tech. CORP., LTD. 日勝生活科技股份有限公司丁心逸永續長 ● Ms. Yilien Ho, Deputy General Manager, Hon-Tsai Technology Co., Ltd. 鴻才科技股份有限公司何美蓮副總經理
12:00-13:30 (90 mins)	Lunch 午餐
13:30-15:00 (90 mins)	Session II: Best Practices for Utilizing AI to Improve Occupational Safety and Health 場次二：運用 AI 促進職業安全衛生之最佳範例 This session aims to facilitate the sharing of best practices and practical experiences among APEC economies in utilizing AI to improve occupational safety and health. Through this session, we aim to inspire new ideas and innovative approaches to utilizing AI to improve workplace safety and health. Economies are encouraged to share their experiences in areas such as AI-enabled hazard identification and prediction, workplace environment monitoring, occupational accident prevention, and OSH management, as well as the benefits and outcomes of these applications and challenges encountered in practice. This session will discuss topics including, but not limited to: (1) Practical applications and best practices in utilizing AI to improve OSH (2) Benefits and outcomes of applying AI to workplace safety and health (3) Challenges, lessons learned, and approaches to effectively utilizing AI for OSH 本場次旨在促進 APEC 經濟體分享運用 AI 提升職業安全衛生之最佳範例與實務。透過本場次，我們期盼

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	激發運用 AI 提升工作場所安全與衛生的新思維及創新途徑。我們鼓勵各經濟體分享相關經驗，包括運用 AI 進行危害辨識與預測、工作場所環境監測、職業災害預防及職業安全衛生管理等，以及這些應用所帶來的效益與成果，並分享實務推動過程中所面臨的挑戰。本場次將討論包括但不限於以下議題： (1) 運用 AI 促進職業安全衛生之實務與最佳範例 (2) AI 應用於工作場所安全衛生所帶來的效益與成果 (3) 運用 AI 促進職業安全衛生所面臨的挑戰、經驗與因應措施 Moderator: 主持人： Mr. You-Lian Sun, Senior Researcher, Taiwan Labor Front 臺灣勞工陣線孫友聯資深研究員 Speakers: 擬邀講者： ● Dr. Kenta Yamagiwa, Director, Mechanical System Safety Research Group, National Institute of Occupational Safety and Health, Japan (virtual) 日本勞動安全衛生綜合研究所機械系統安全研究組山際謙太組長 (線上出席) ● Mr. Thawesit Boontham, Executive Director, Occupational Safety and Health Division, Department of Labour Protection and Welfare, Ministry of Labour, Thailand 泰國勞動部勞動保障及福祉司職業安全衛生處 Thawesit Boontham 處長 ● Korea Occupational Safety and Health Agency (KOSHA) 韓國職業安全衛生法人機構 ● Social Security Organization (PERKESO), Malaysia 馬來西亞社會保障機構(待定) ● Occupational Safety and Health Administration, Ministry of Labor 勞動部職業安全衛生署

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	● Formosa Plastics Corporation 台灣塑膠工業股份有限公司(待定)
15:00-15:20 (20 mins)	Coffee Break 茶憩
15:20-16:50 (90 mins)	Roundtable: Preventing and Reducing Workplace Hazards and Accidents through AI Solutions 圓桌論壇：運用 AI 解方預防及降低職場風險與意外 This roundtable session aims to explore how AI solutions can be effectively utilized to prevent and reduce workplace hazards and accidents. Participants will exchange views on how emerging AI technologies and applications can be further developed and adapted to address different workplace hazards and OSH needs. The discussion will also explore how governments, employers, workers, technology providers, and other stakeholders can work together to promote the effective and responsible use of AI for safer and healthier workplaces. Through this roundtable discussion, we aim to exchange innovative insights and future directions for harnessing AI to advance occupational safety and health. The guiding questions are: (1) What are the key factors for effectively applying AI solutions to different industries, workplaces, and OSH needs? (2) How can governments, employers, workers, and other stakeholders work together to promote the effective and responsible use of AI for advancing OSH? (3) Looking ahead, how can emerging AI technologies and solutions be further utilized to prevent and reduce workplace risks and accidents? 本圓桌論壇旨在探討如何有效運用人工智慧（AI）解方，以預防及降低職場風險與意外。與會者將就如何進一步發展及調整新興 AI 科技與實際應用，以因應不同的職場危害及職業安全衛生需求交換意見。本論壇亦將探討政府、雇主、勞工、及其他利害關係人如何共同合作，促進 AI 有效及負責任運用於職業安全衛生領域，打造更加安全衛生的工作場所。透過本次

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	圓桌論壇，我們期盼促進交流創新觀點，並探索運用 AI 提升職業安全衛生的未來方向。 本場次將探討以下三個主要議題： (1) 將 AI 解方有效應用於不同產業、工作場所及職業安全衛生需求之關鍵因素為何？ (2) 政府、雇主、勞工、及其他利害關係人應如何共同合作，以有效及負責任的促進 AI 於職業安全衛生領域之應用？ (3) 展望未來，應如何進一步運用新興 AI 科技與解方，以預防及降低職場風險與意外？ Moderator: 主持人： Dr. Shih-Wei Pan, Professor, Department of Labor and Human Resources, Chinese Culture University 中國文化大學勞動暨人力資源學系潘世偉教授 Panelists: 擬邀與談人： ● National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, US Department of Health and Human Services 美國衛生及公共服務部疾病管制與預防中心國家職業安全衛生研究所(待定) ● Mr. Thawesit Boontham, Executive Director, Occupational Safety and Health Division, Department of Labour Protection and Welfare, Ministry of Labour, Thailand 泰國勞動部勞動保障及福祉司職業安全衛生處 Thawesit Boontham 處長 ● Korea Occupational Safety and Health Agency (KOSHA) 韓國職業安全衛生法人機構 ● Social Security Organization (PERKESO), Malaysia 馬來西亞社會保障機構(待定) ● IndustriALL Global Union 全球產業總工會(待定) ● Dr. Pin-Chan Lee, Secretary-General, COSHPA

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	全國營造業職業安全衛生促進聯合總會李秉展秘書長 ● Industrial Safety and Health Association (ISHA) of the R.O.C. 中華民國工業安全衛生協會(待定) ● Mr. Jen-Wei Liu, Deputy General Secretary, Taiwan Petroleum Workers' Union 台灣石油工會劉人瑋副秘書長
16:50-17:00 (10 mins)	Closing Remarks 閉幕致詞